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patent pmCS HAS align version 2

FIG. 1

	1				50
PmCS	MNTLSQAIIKA	YNSNDYELAL	KLFEKSAETY	GRKIVEFQII	KCKEKLSTNS
PmHAS	MNTLSQAIIKA	YNSNDYQLAL	KLFEKSAEIY	GRKIVEFQIT	KCKEKLSAHP
Consensus	MNTLSQAIIKA	YNSNDY#LAL	KLFEKSAEiY	GRKIVEFQIi	KCKEKLSanp
	51				100
PmCS	YVS.....	EDKKNSVCDS	SLDIATQLLL	SNVKKLTLSE	SEKNSLKNKW
PmHAS	SVNSAHLNVN	KEEKVNVCDs	PLDIATQLLL	SNVKKLVLSd	SEKNTLKNKW
Consensus	SVn.....	e#eKnnVCDS	pLDIATQLLL	SNVKKLtlS#	SEKNSLKNKW
	101				150
PmCS	KSITGKKSEN	AEIRKVELVP	KDFPKDLVLA	PLPDHVNDFT	WYKNRKKSLG
PmHAS	KLLTEKKSEN	AEVRAVALVP	KDFPKDLVLA	PLPDHVNDFT	WYKKRKKRLG
Consensus	KliTeKKSEN	AE!RaVaLVP	KDFPKDLVLA	PLPDHVNDFT	WYKnRKKrLG
	151				200
PmCS	IKPVNKNIGL	SIIPTFNRS	RILDITLACL	VNQKTNYPFE	VVVADDGSKE
PmHAS	IKPEHQHVGL	SIIVTTFNRP	AILSITLACL	VNQKTHYPFE	VIVTDDGSQE
Consensus	IKPenqn!GL	SII!pTFNRP	aILdITLACL	VNQKTnYPFE	V!VaDDGSqE
	201				250
PmCS	NLLTIVQKYE	QKLDIKYVRQ	KDYGyQLCAV	RNLGLRTAKY	DFVSILDCDM
PmHAS	DLSPiIRQYE	NKLDiRYVRQ	KDNGFQASAA	RNMGLRLAKY	DFIGLLDCDM
Consensus	#LlpI!rqYE	#KLDiRYVRQ	KDnG%QacAa	RN\$GLRlAKY	DF!giLDCDM
	251				300
PmCS	APQQLWVHSY	LTELLEDNDI	VLIGPRKYVD	THNITAEQFL	NDPYLIESLP
PmHAS	APNPLWVHSY	VAELLEDDDL	TIIGPRKYID	TQHIDPKDFL	NNASLLES LP
Consensus	AP#qLWVHSY	laELLED#Di	tiIGPRKY!D	TqnIdae#FL	N#asLiESLP
	301				350
PmCS	ETATNNNPSI	TSKGNISLDW	RLEHFkKTDN	LRLCDSPFRY	FSCGNVAFSK
PmHAS	EVKTNNSVAA	KGEGTVSLDW	RLEQFEKTEN	LRLSDSPFRF	FAAGNVAFAK
Consensus	EtaTNNnpaa	kgeGn!SLDW	RLEqFeKT#N	LRLCDSPFR%	FaaGNVAFaK
	351				400
PmCS	EWLNVKGWFD	EEFNHWGGED	VEFGYRLFak	GCFFRVIDGG	MAYHQEPPGK
PmHAS	KWLNKSGFFD	EEFNHWGGED	VEFGYRLFry	GSFFKTIDGI	MAYHQEPPGK
Consensus	eWLNKsGfFD	EEFNHWGGED	VEFGYRLFak	GcFFr'tIDGg	MAYHQEPPGK
	401				450
PmCS	ENETDREAGK	SITLKIVKEK	VPYIYRKLLP	IEDSHIHRIp	LVSIYIPAYN
PmHAS	ENETDREAGK	NITLDIMREK	VPYIYRKLLP	IEDSHINRVP	LVSIYIPAYN
Consensus	ENETDREAGK	nITLdImrEK	VPYIYRKLLP	IEDSHInR!P	LVSIYIPAYN
	451				500
PmCS	CANYIQRCDV	SALNQTVVDL	EVCICNDGST	DNTLEVINKL	YGNNPRVRIM
PmHAS	CANYIQRCDV	SALNQTVVDL	EVCICNDGST	DNTLEVINKL	YGNNPRVRIM
Consensus	CANYIQRCDV	SALNQTVVDL	EVCICNDGST	DNTLEVINKL	YGNNPRVRIM
	501				550
PmCS	SKPNGGIASA	SNAAVSFAKG	YYIGQLDSDD	YLEPDAVELC	LKEFLKDKTL
PmHAS	SKPNGGIASA	SNAAVSFAKG	YYIGQLDSDD	YLEPDAVELC	LKEFLKDKTL
Consensus	SKPNGGIASA	SNAAVSFAKG	YYIGQLDSDD	YLEPDAVELC	LKEFLKDKTL
	551				600
PmCS	ACVYTTNRNV	NPDGSLIANG	YNWPEFSREK	LTTAMIAHHF	RMFTIRAWHL
PmHAS	ACVYTTNRNV	NPDGSLIANG	YNWPEFSREK	LTTAMIAHHF	RMFTIRAWHL
Consensus	ACVYTTNRNV	NPDGSLIANG	YNWPEFSREK	LTTAMIAHHF	RMFTIRAWHL

Fig3

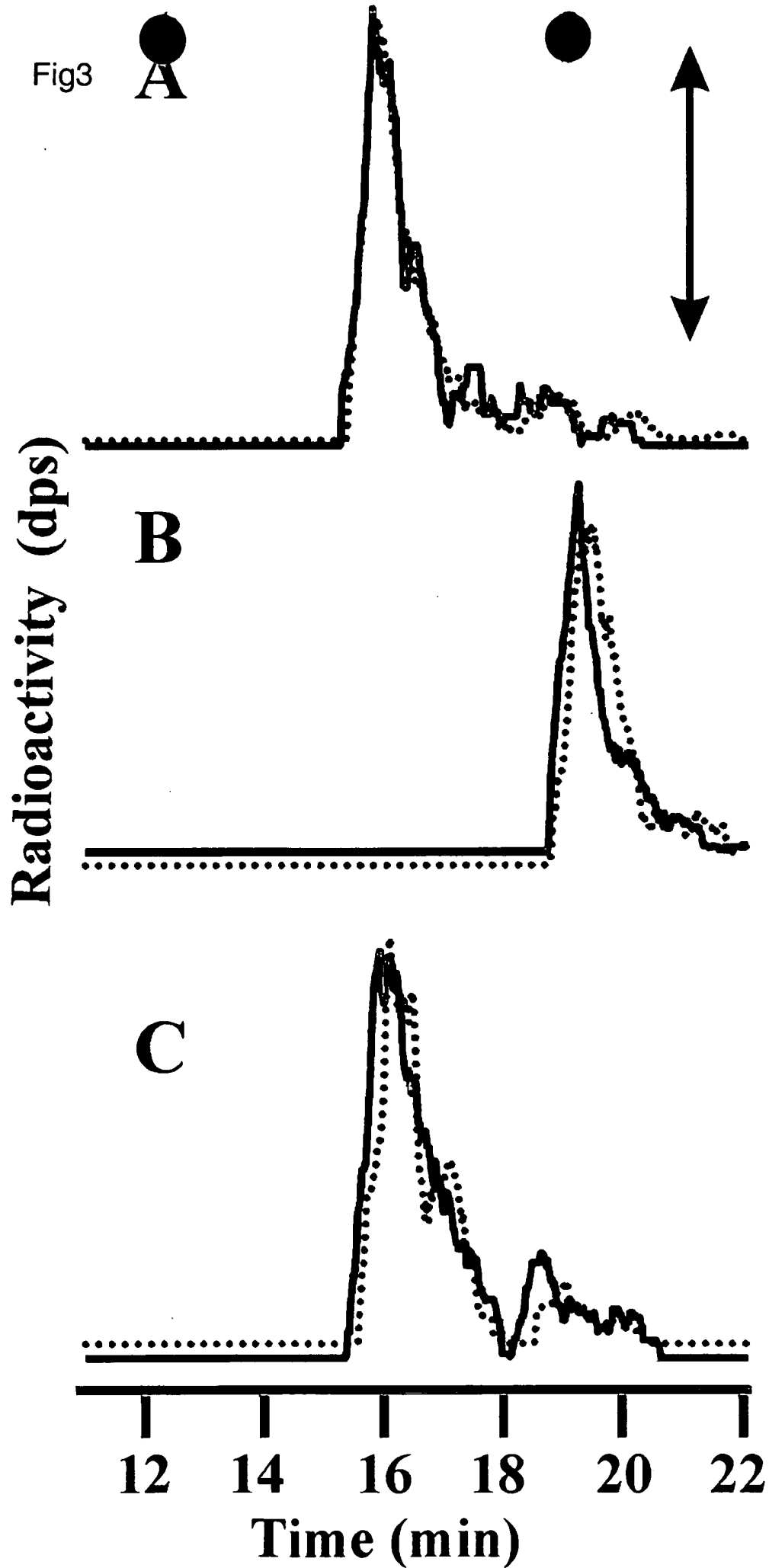


Fig 4.

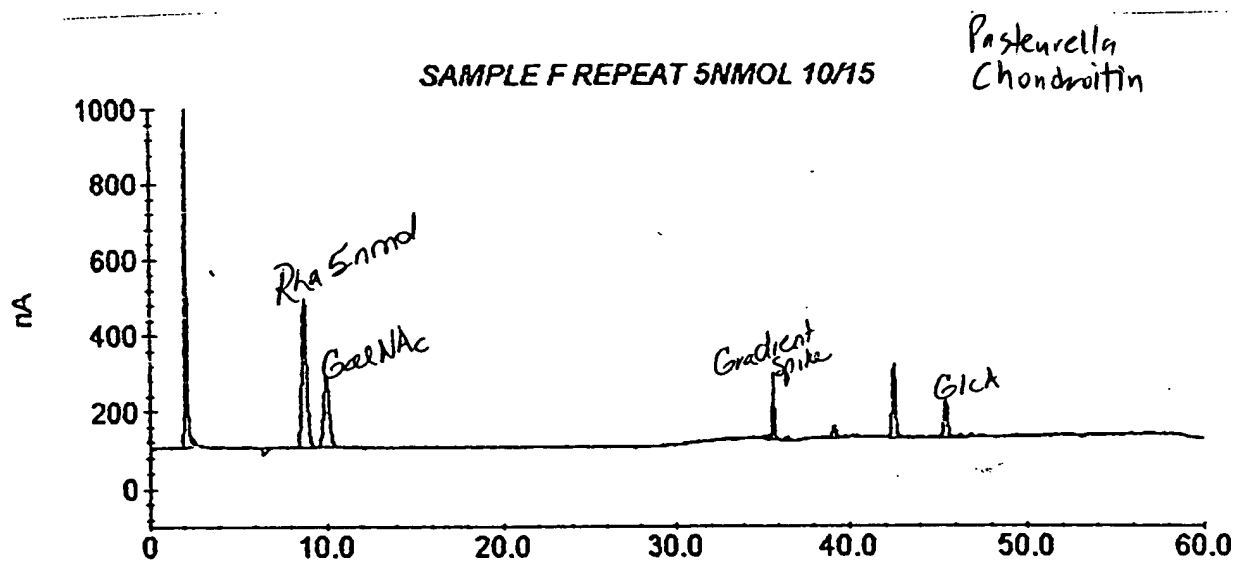
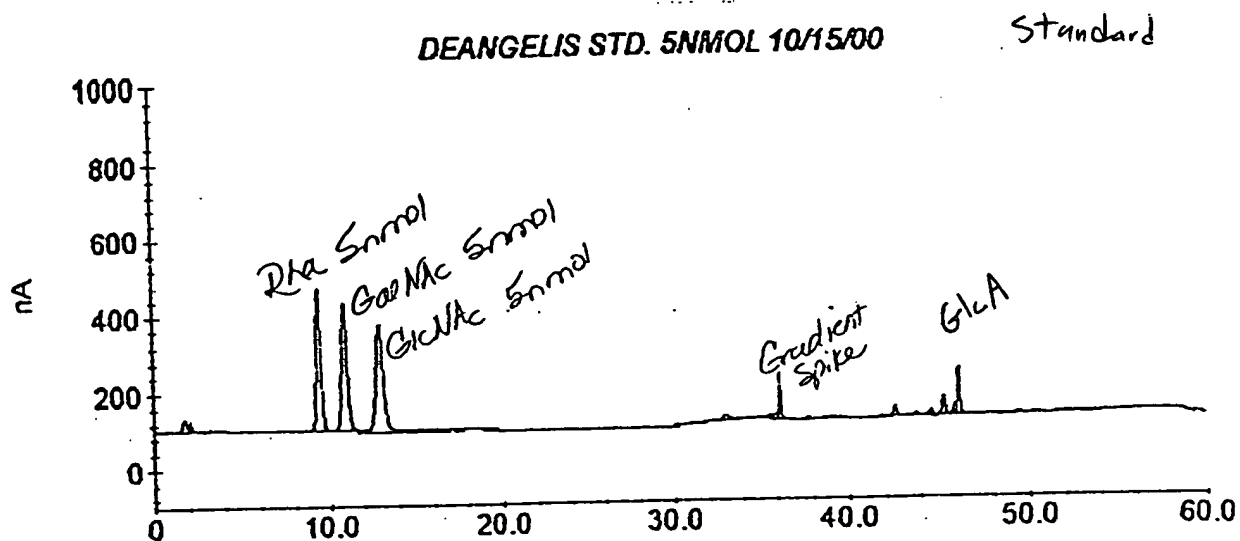


Fig. 5

HA Product Size (30 min assay)

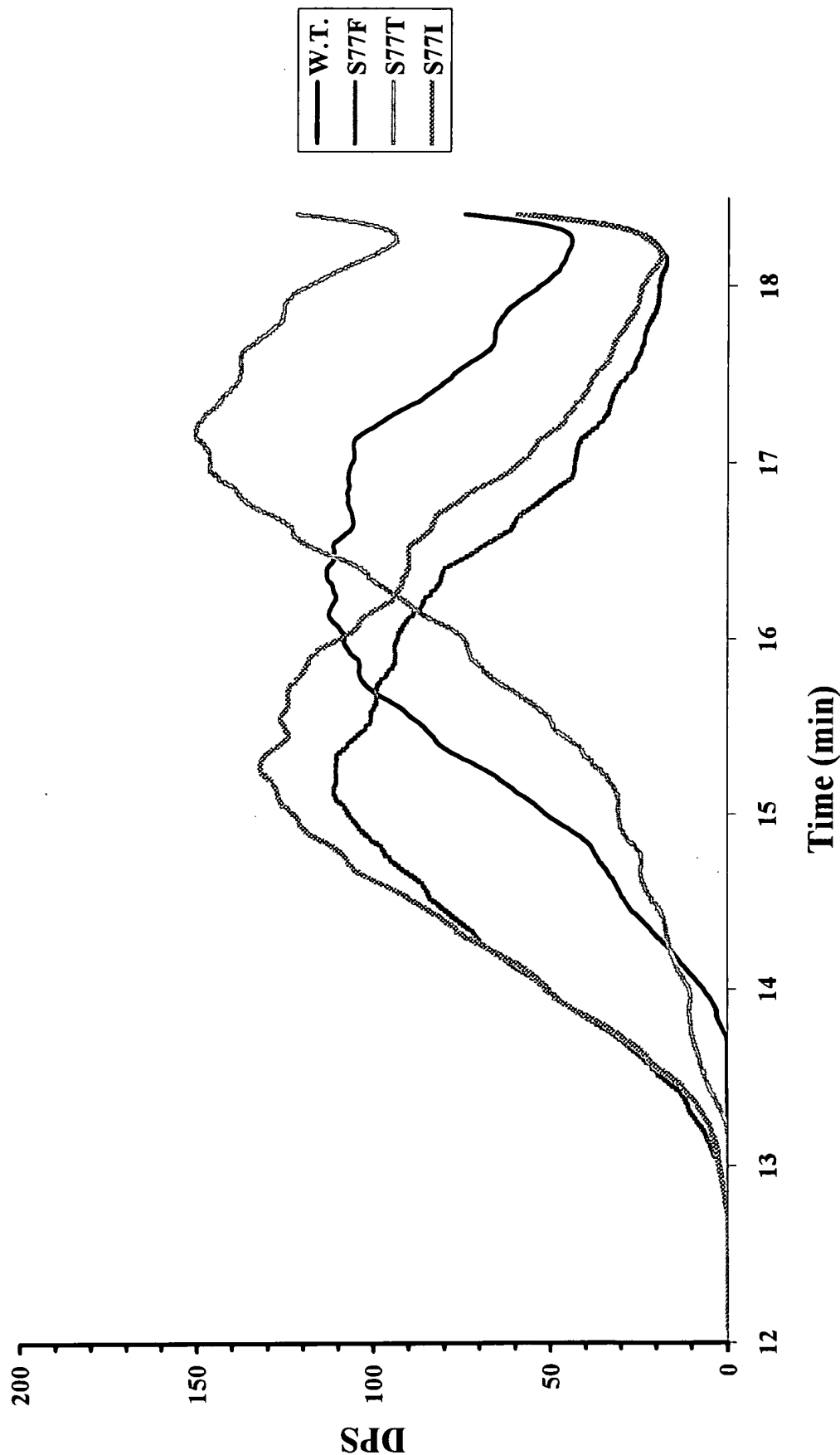


Fig. 7

NMR of Type F Polymer

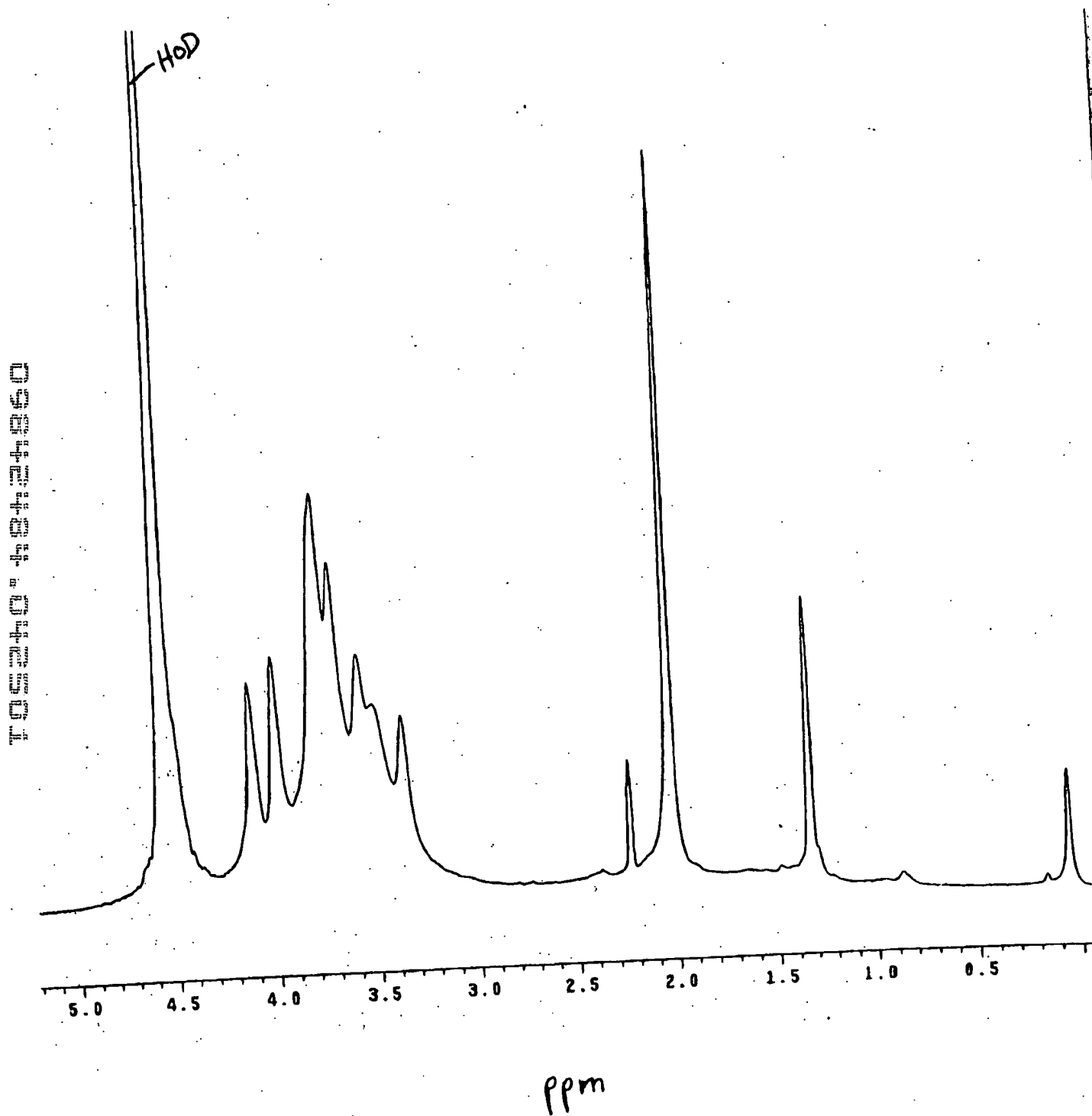
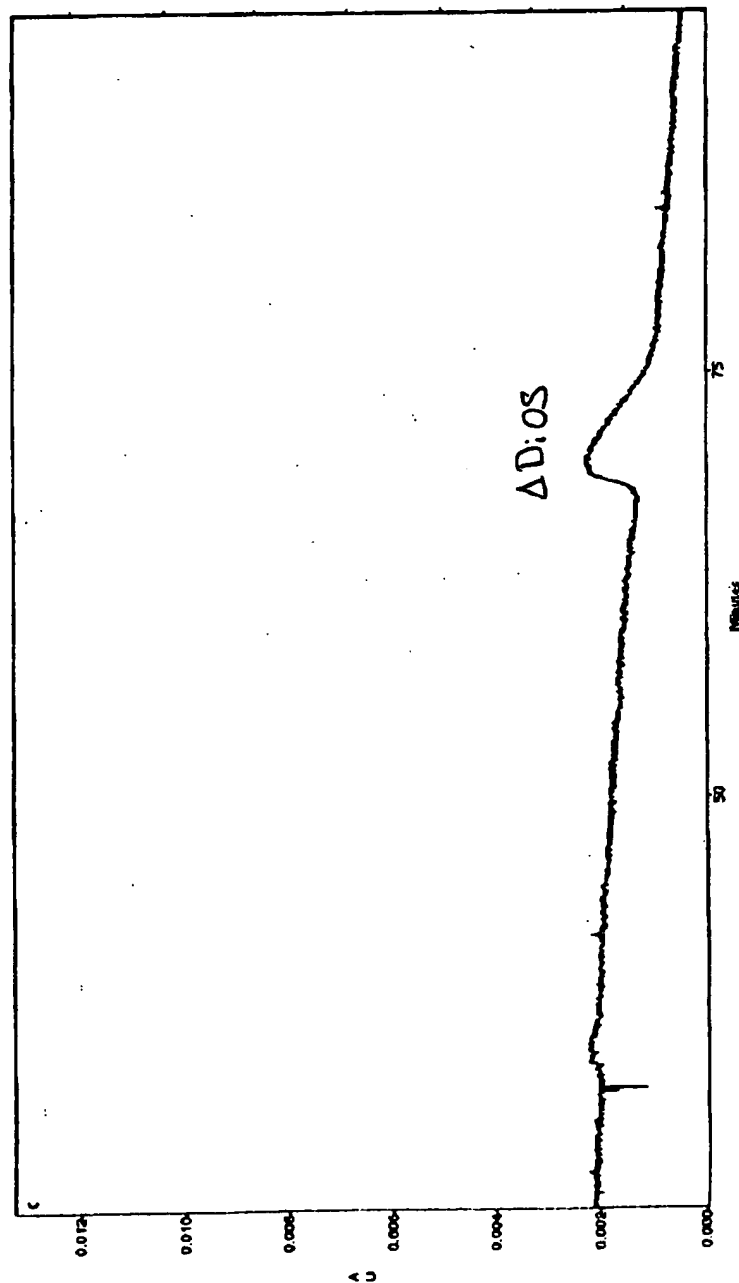


Fig. 8

12-13-68

ACase treatment

~~ACase~~



minutes